

Title (en)

DETECTION AND TREATMENT OF RESIDUAL DISEASE USING CIRCULATING TUMOR DNA ANALYSIS

Title (de)

NACHWEIS UND BEHANDLUNG VON RESTKRANKHEITEN UNTER VERWENDUNG EINER ANALYSE ZIRKULIERENDER TUMOR-DNA

Title (fr)

DÉTECTION ET TRAITEMENT D'UNE MALADIE RÉSIDUELLE À L'AIDE D'UNE ANALYSE DE L'ADN TUMORAL CIRCULANT

Publication

EP 3990659 A4 20230726 (EN)

Application

EP 20833215 A 20200625

Priority

- US 201962866543 P 20190625
- US 2020039701 W 20200625

Abstract (en)

[origin: WO2020264220A1] The present disclosure provides a method of treating a cancer in a patient who has undergone a first anti-cancer therapy. Also provided is a method for monitoring treatment response and minimum residual disease in a neoadjuvantly treated cancer patient. Methods for primer design are also disclosed. The present disclosure provides several tools for increasing the sensitivity and analytical precision of the disclosed methods for monitoring ctDNA.

IPC 8 full level

C12Q 1/6806 (2018.01); **C12Q 1/6869** (2018.01); **C12Q 1/6886** (2018.01); **G16H 50/30** (2018.01)

CPC (source: EP US)

A61K 45/06 (2013.01 - EP); **C12Q 1/6806** (2013.01 - EP); **C12Q 1/6886** (2013.01 - EP US); **G16B 20/20** (2019.01 - EP US); **G16B 30/00** (2019.01 - EP); **C12Q 1/6855** (2013.01 - US); **C12Q 1/6858** (2013.01 - US); **C12Q 1/6869** (2013.01 - US); **C12Q 2600/106** (2013.01 - US); **C12Q 2600/112** (2013.01 - US); **C12Q 2600/156** (2013.01 - EP US); **C12Q 2600/16** (2013.01 - US); **G16H 50/30** (2017.12 - EP)

Citation (search report)

- [IY] WO 2016040901 A1 20160317 - UNIV LELAND STANFORD JUNIOR [US]
- [Y] US 2018023125 A1 20180125 - TALASAZ AMIRALI [US], et al
- [Y] AARON M NEWMAN ET AL: "Online supplementary material for "An ultrasensitive method for quantitating circulating tumor DNA with broad patient coverage"", NATURE MEDICINE, 6 April 2014 (2014-04-06), pages 548 - 554, XP055462152, Retrieved from the Internet <URL:https://media.nature.com/original/nature-assets/nm/journal/v20/n5/extref/nm.3519-S1.pdf> [retrieved on 20180322], DOI: 10.1038/nm.3519
- [XP] MC DONALD BRADON R. ET AL: "Personalized circulating tumor DNA analysis to detect residual disease after neoadjuvant therapy in breast cancer , Suet-Feung Chin 2", SCIENCE TRANSLATIONAL MEDICINE, vol. 11, no. 504, 7 August 2019 (2019-08-07), pages - 14, XP055780538, Retrieved from the Internet <URL:https://stm.sciencemag.org/content/scitransmed/11/504/eaax7392.full.pdf>
- See references of WO 2020264220A1

Designated contracting state (EPC)

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DOCDB simple family (application)

US 2020039701 W 20200625; EP 20833215 A 20200625; US 202017621528 A 20200625